

Title (en)

METHOD FOR PRODUCING EFFECTOR CELL HAVING DESIRED SPECIFICITY

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER EFFEKTORZELLE MIT GEWÜNSCHTER SPEZIFITÄT

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE CELLULE EFFECTRICE AYANT UNE SPÉCIFICITÉ SOUHAITÉE

Publication

EP 4219707 A1 20230802 (EN)

Application

EP 21872573 A 20210924

Priority

- JP 2020160252 A 20200924
- JP 2021035150 W 20210924

Abstract (en)

Provided is a method for producing effector cells expressing a desired specificity determining region. In this method, material cells that have a cassette deck structure with a cassette tape gene comprising a gene encoding a marker protein in their genome, wherein the material cells can be differentiated into the effector cells, and wherein the marker protein can be expressed in the effector cells or progenitor cells thereof when the material cells are differentiated into the effector cells or progenitor cells thereof are provided first. The material cells are proliferated, the proliferated cells are differentiated into the effector cells, and then, the gene encoding the marker protein in the effector cells is exchanged with a gene encoding a protein that contribute the desired specificity.

IPC 8 full level

C12N 15/09 (2006.01); **C12N 5/0735** (2010.01); **C12N 5/074** (2010.01); **C12N 5/10** (2006.01)

CPC (source: EP IL KR US)

A61K 35/17 (2013.01 - KR); **A61K 39/4611** (2023.05 - EP); **A61K 39/4632** (2023.05 - EP); **A61K 39/464488** (2023.05 - EP); **C07K 14/7051** (2013.01 - KR US); **C12N 5/06** (2013.01 - IL); **C12N 5/0634** (2013.01 - US); **C12N 5/0636** (2013.01 - KR); **C12N 5/10** (2013.01 - IL); **C12N 15/09** (2013.01 - IL); **C12N 15/63** (2013.01 - EP); **A61K 2039/555** (2013.01 - EP); **C07K 14/7051** (2013.01 - EP); **C12N 5/0636** (2013.01 - EP); **C12N 2506/02** (2013.01 - KR US); **C12N 2506/45** (2013.01 - EP KR US); **C12N 2510/00** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2022065444A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4219707 A1 20230802; AU 2021349574 A1 20230511; CA 3193384 A1 20220331; CN 116406423 A 20230707; IL 301534 A 20230501; JP WO2022065444 A1 20220331; KR 20230074505 A 20230530; US 2023357715 A1 20231109; WO 2022065444 A1 20220331

DOCDB simple family (application)

EP 21872573 A 20210924; AU 2021349574 A 20210924; CA 3193384 A 20210924; CN 202180070920 A 20210924; IL 30153423 A 20230321; JP 2021035150 W 20210924; JP 2022552076 A 20210924; KR 20237012583 A 20210924; US 202118027306 A 20210924